DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12751161

Catalog #: 00536ET3E184T-S

: 182/4T Cooling method : IC411 - TEFC Frame

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 82.2 lb

: 1000 m.a.s.l. Altitude Approx. weight³

Protection degree		: IP55	Moment of inertia (J)	: 0.2079 sq.ft.lb
Design		: B		
Output [HP]		5	5	5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		11.8/5.90	14.3/7.17	12.8/6.81
L. R. Amperes [A]		92.0/46.0	91.8/45.9	91.2/48.4
LRC [A]		7.8x(Code J)	6.4x(Code G)	7.1x(Code H)
No load current [A]	4.40/2.20	4.34/2.17	4.39/2.33
Rated speed [RPN	<i>/</i> 1]	3500	2860	2875
Slip [%]		2.78	4.67	4.17
Rated torque [ft.lb]]	7.50	9.18	9.13
Locked rotor torqu		220	180	200
Breakdown torque	[%]	300	250	280
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	87.2	89.8	89.3
	50%	87.5	88.1	88.1
Liliciency (70)	75%	88.5	87.3	87.8
	100%	88.5	85.2	86.2
	25%	0.49	0.55	0.52
Power Factor	50%	0.76	0.82	0.79
Power Factor	75%	0.85	0.89	0.87

Drive end Non drive end Foundation loads

0.92

6206 ZZ Bearing type 6205 ZZ Max. traction : 122 lb Sealing V'Ring Without Max. compression : 204 lb

0.89

Bearing Seal

Lubrication interval Lubricant amount

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 13.1A SF 1.00 SFA 13.1A

100%

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

0.91

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



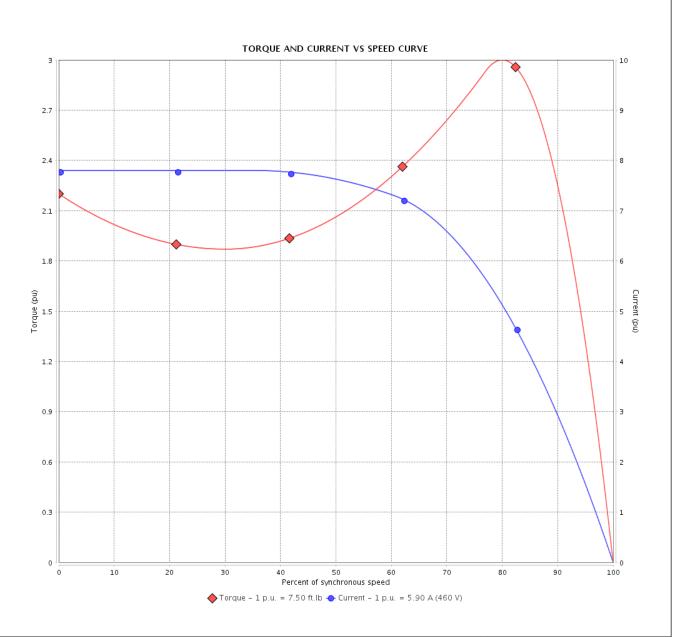
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance : 230/460 V 60 Hz 2P Rated current : 11.8/5.90 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 7.50 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3500 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12751161 Catalog #: 00536ET3E184T-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.18 ft.lb ◆ Current - 1 p.u. = 7.17 A (380 V) Performance : 190/380 V 50 Hz 2P Rated current : 14.3/7.17 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.18 ft.lb Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2860 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Date Rev. **Changes Summary** Performed Checked Performed by

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

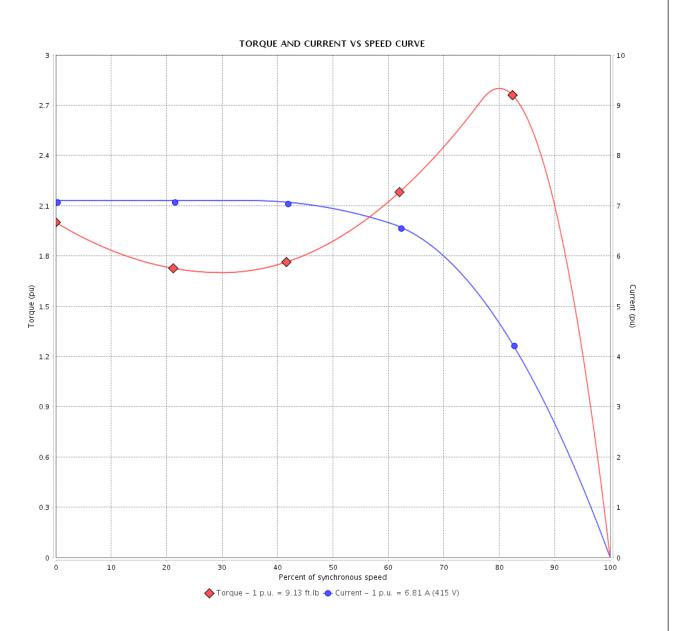


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance : 220/415 V 50 Hz 2P Rated current : 12.8/6.81 A Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.13 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2875 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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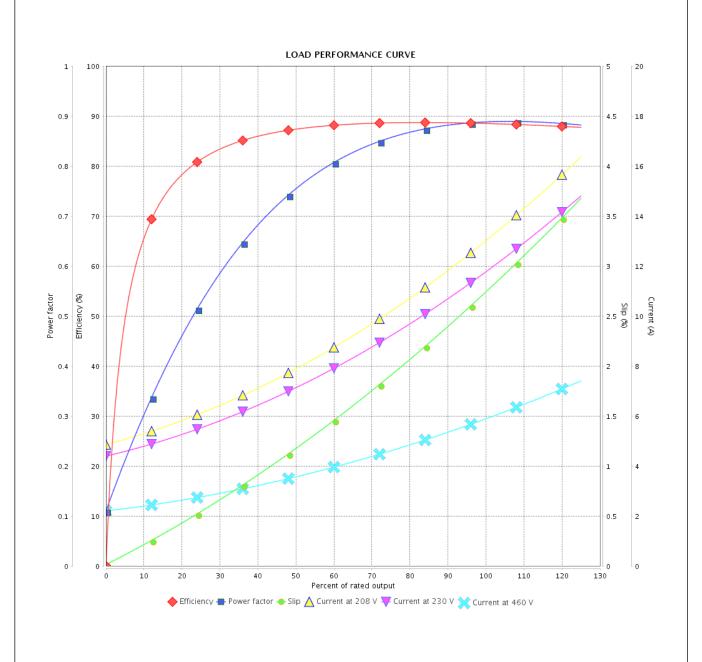


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751161

Phase

Catalog #: 00536ET3E184T-S



Performance	:	: 230/460 V 60 Hz 2P				
Rated current	: 11.8/5.90 A		Moment o	f inertia (J)	: 0.2079 sq.ft.	lb
LRC		7.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	7.50 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	: 220 %	Service fa	ctor	: 1.15	
Breakdown torque	:	300 % Temperature rise		ıre rise	: 80 K	
Rated speed	:	: 3500 rpm	Design		: B	
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Customer :

Checked by

Date

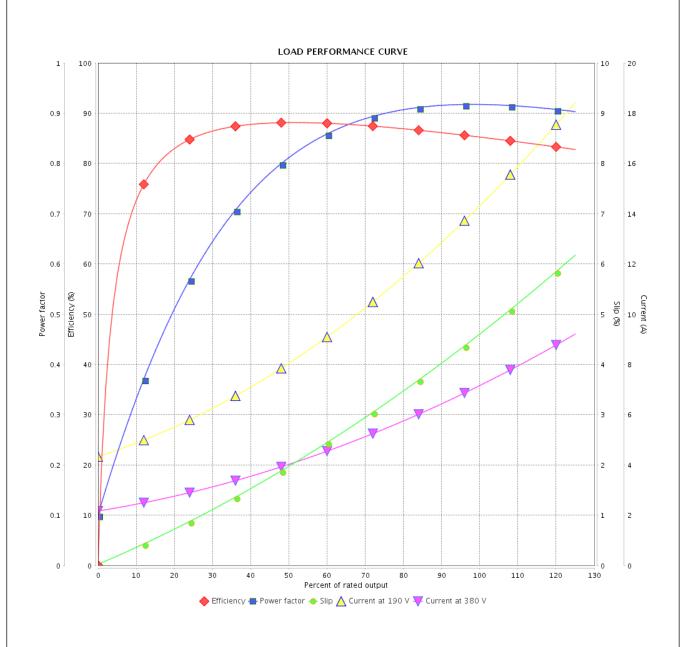
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance		: 190/380 V 50 Hz 2F	P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 14.3/7.17 A : 6.4 : 9.18 ft.lb : 180 % : 250 % : 2860 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.2079 sq.ft.l : Cont.(S1) : F : 1.00 : 105 K : B	b
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

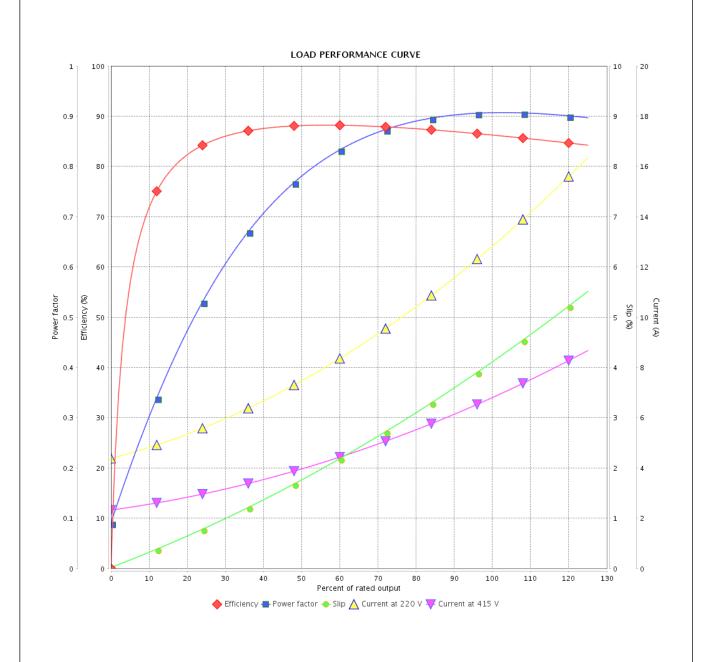


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751161

Phase

Catalog #: 00536ET3E184T-S



Performance	:	: 220/415 V 50 Hz 2P				
Rated current	: 12.8/6.81 A		Moment o	f inertia (J)	: 0.2079 sq.ft.l	b
LRC	:	7.1	Duty cycle	:	: Cont.(S1)	
Rated torque	:	9.13 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	200 %	Service fa	ctor	: 1.00	
Breakdown torque	::	280 %	Temperature rise		: 105 K	
Rated speed	:	2875 rpm	Design		: B	
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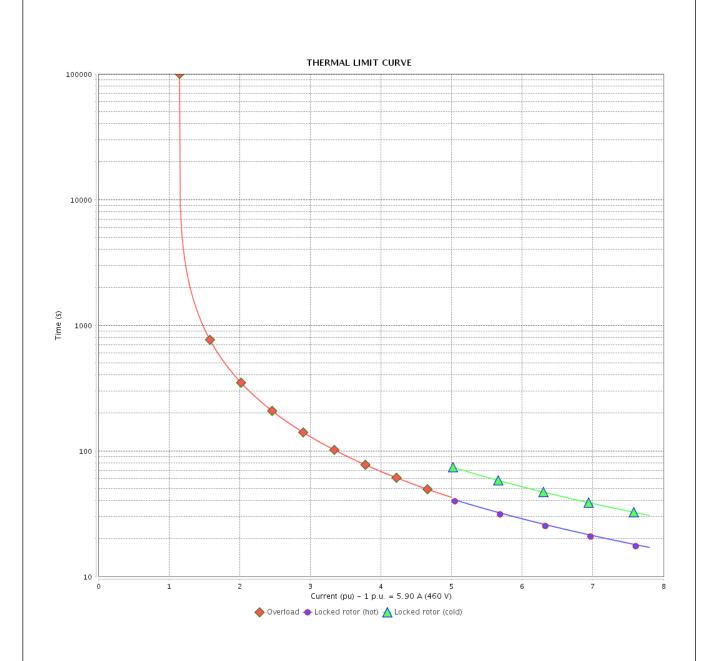


Customer	:			,	
Product line	: NEMA Premium Efficiency	/ Three-	Product code :	12751161	
	Phase		Catalog # :	00536ET3E1	84T-S
Performance	: 230/460 V 60 Hz 2P				
Rated current	: 11.8/5.90 A	Moment of	f inertia (J)	: 0.2079 sq.ft.l	b
LRC Rated torque	: 7.8 : 7.50 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed	: 300 % : 3500 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant	r				
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage

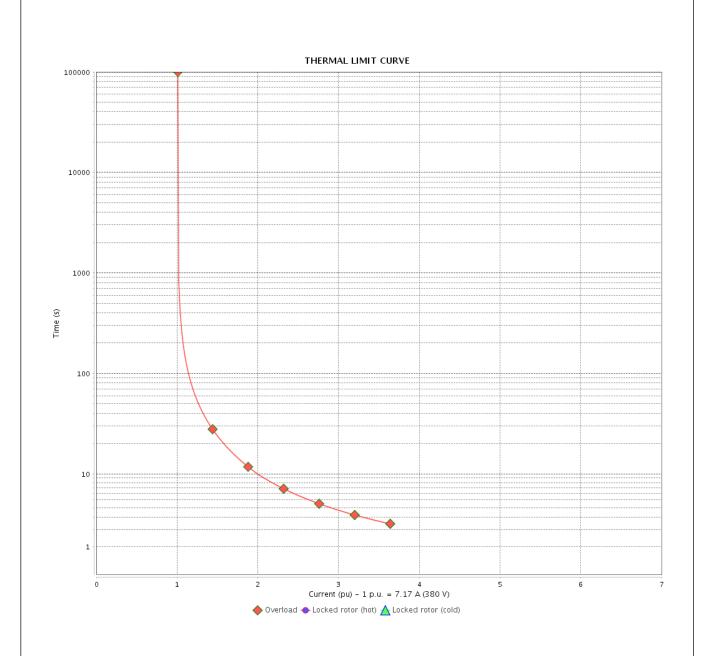


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12751161 00536ET3E1	84T-S
Performance Rated current		190/380 V 50 Hz 2P 14.3/7.17 A	Moment o	f inertia (J)	: 0.2079 sq.ft.ll	h
LRC Rated torque	:	6.4 9.18 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ue :	180 % 250 % 2860 rpm	Service fa Temperati Design		: 1.00 : 105 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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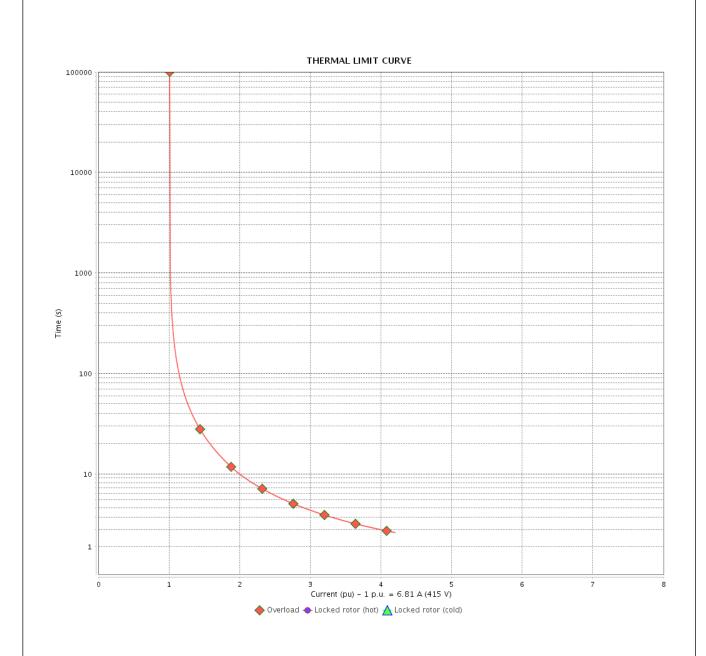


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12751161 00536ET3E184T-S	
Performance	: 220/415 V 50 Hz 2P			
Rated current LRC	: 12.8/6.81 A : 7.1	Moment of inertia (J)	: 0.2079 sq.ft.lb	
Rated torque	: 9.13 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service factor	: 1.00 : 105 K	
Breakdown torque Rated speed	: 280 % : 2875 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant			,	
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Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



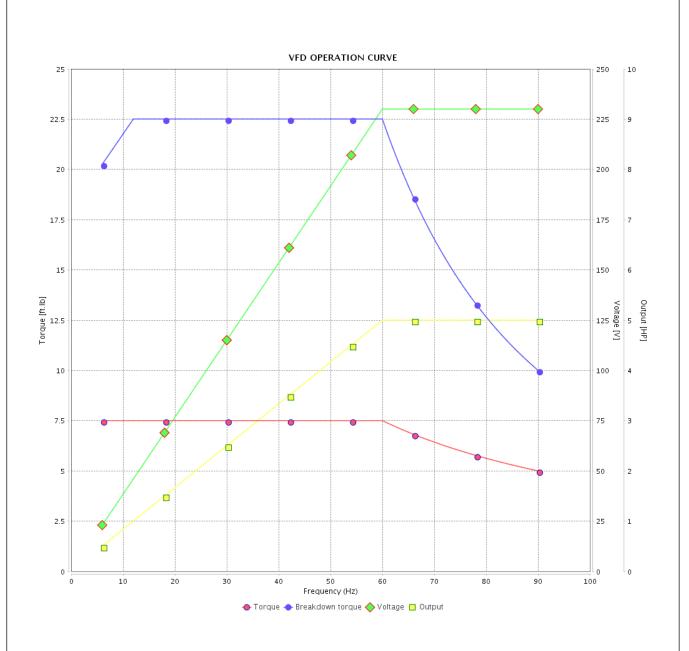
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance	. 2	30/460 V 60 Hz 2P					
Periormance	. 2	30/400 V 00 HZ ZP					
Rated current	: 1	1.8/5.90 A	Moment of	Moment of inertia (J)		: 0.2079 sq.ft.lb	
LRC	: 7	7.8	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 7	7.50 ft.lb	Insulation	Insulation class		: F	
Locked rotor torg	jue : 2	20 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ie : 3	00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	500 rpm	Design	Design			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

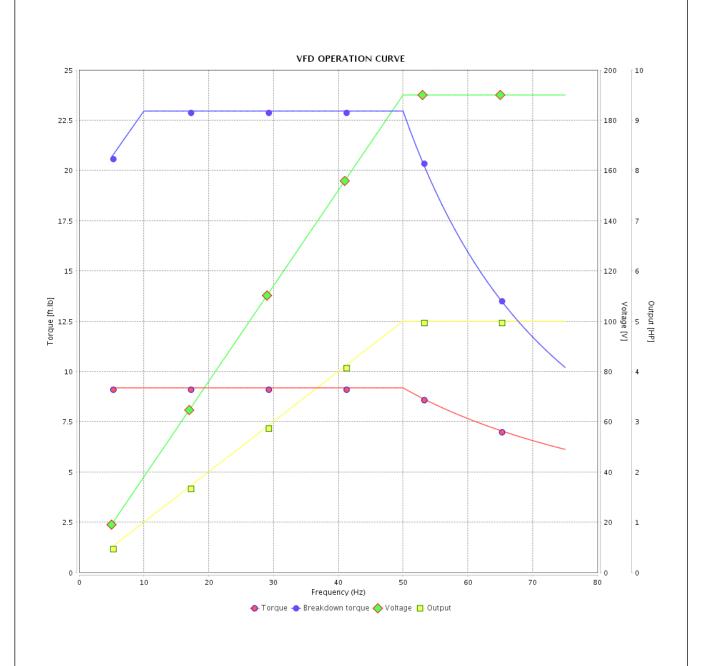


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751161

Phase

Catalog #: 00536ET3E184T-S



Performance		: 190/380 V 50 Hz 2P						
Rated current		14.3/7.17 A	Moment of inertia (J)		: 0.2079 sq.ft.lb			
LRC		6.4	Duty cycle		: Cont.(S1)			
Rated torque		9.18 ft.lb	Insulation class		: F			
Locked rotor torque	e :	180 %	Service factor		: 1.00			
Breakdown torque	:	250 %	Temperature rise		: 105 K			
Rated speed	:	: 2860 rpm		Design		: B		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



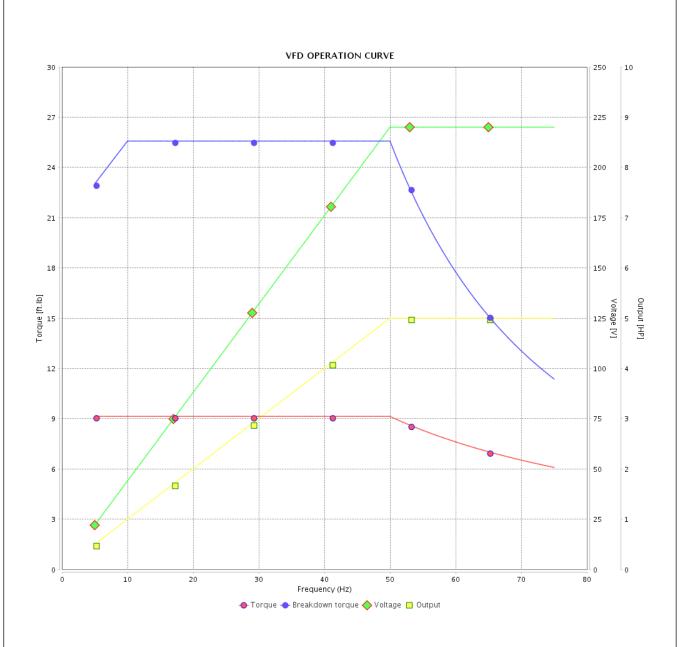
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Product line : NEMA Premium Efficiency Three-

Phase

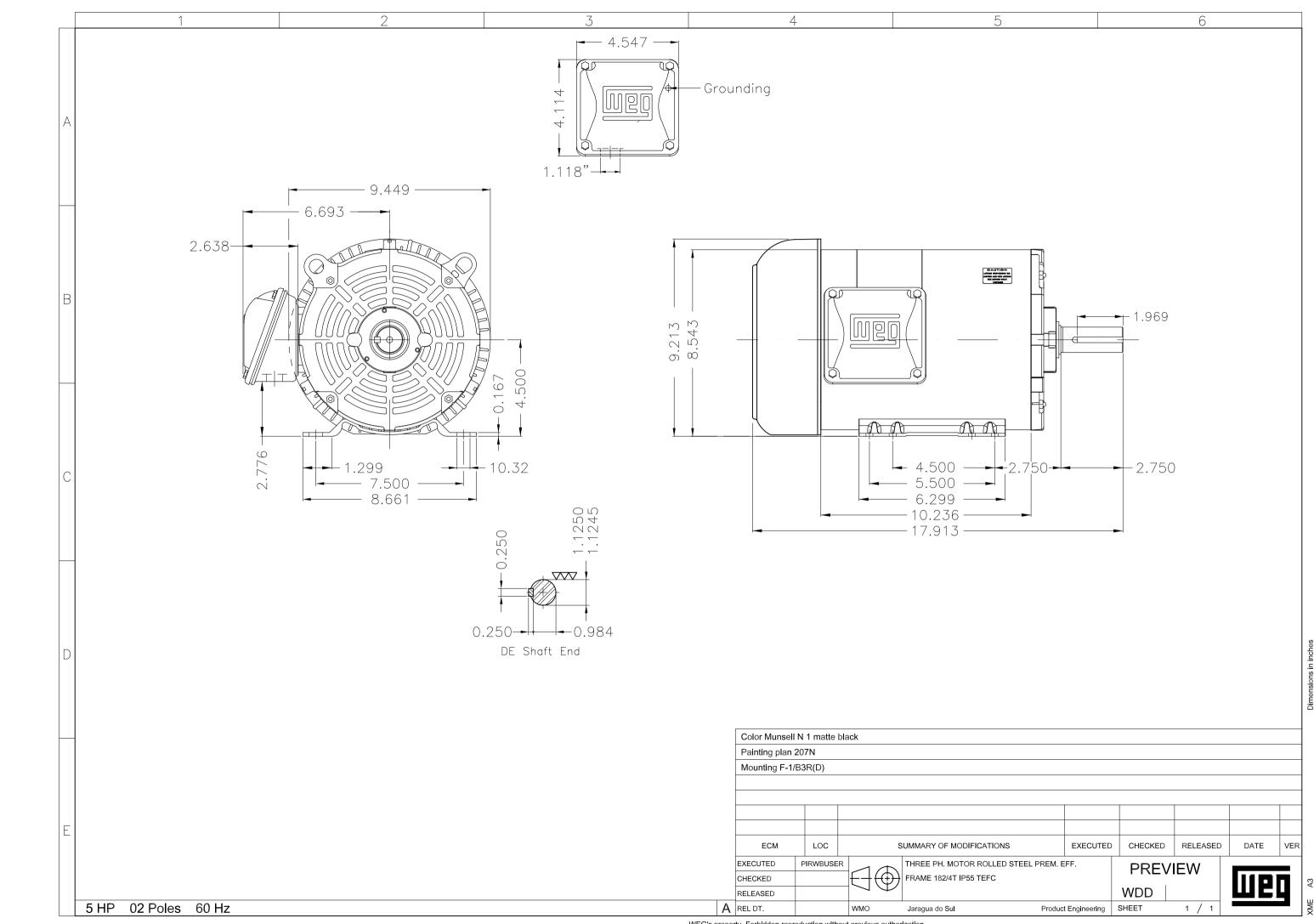
Product code: 12751161

Catalog #: 00536ET3E184T-S



Performance : 220/415 V 50 Hz 2P : 12.8/6.81 A Rated current Moment of inertia (J) : 0.2079 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.1 Insulation class Rated torque : 9.13 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 105 K Rated speed : 2875 rpm Design : B

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ZEZ

(**UL)**US LISTED 3PT9 FOR SAFE AREA

&

S/N

HT005402NPW0

NO1.TEDICOXON 12751161

MADE IN MÉXICO

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1 Energy Verifi

8

2

182/4T)6APR2022

CONT

88.5% NOM EFF ZPM 쌆 50 Hz

11.8/5.90 13.6/6.79

1.15

3FA 냃

P55

1000 m.a.s.l

F AT 80K

SCI

CODE SH

TEFC 0

SABLE @ 208V 13.1A ALTERNATE RATING:

SF1.00 INC. W

230/460

190-220/380-415V **EFF 85.2%**

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT

2860RPM

14.3-12.47.17-6.59A

ODE 6205-22 5.0HP

8206-ZZ

JT6

IEC 60034-1

SF1.00

r3-org MOBIL POLYREX EM

T2-WHT T6-GRY T4-YEL

1-BLU

T5-BLK



conformément aux codes électriques locaux et nationaux ann d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine.

T7-PNK T9-BRK